

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : Confirmation No.
Applicant : Hercilio Rivas, et al.
Filed :
TC/A.U. :
Examiner :

Docket No. : 01-682
Customer No. : 34704

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a listing of patent documents on Form PTO-1449. However, the following are foreign documents:

European Patent Document No. EP0174795A2, published March 19, 1986. This document discloses a road surface dressing composition which is made by (a) blending together at a temperature of 140 to 200 DEG C, (i) a bitumen fluxed with a petroleum derived aromatic oil to a penetration of over 220 (mm 10), (ii) a styrene-butadiene copolymer; (b) mixing the resultant blend for at least 10 minutes at a temperature of 150 to 190 DEG C with 0.01 to 0.6% of sulphur based on the weight of the bitumen content of the said fluxed bitumen; and (c) mixing the resultant product at a temperature of 125 to 150 DEG C with a light fluxant preferably hydrocarbonaceous, to decrease the final viscosity of the composition to a required value.

French Patent Document No. FR2533935A1, published April 6, 1984. This document discloses a preparation of bitumen-polymer compositions from master solutions based on butadiene-styrene (SBS) copolymer, obtained by stirring the copolymer in a solvent medium at 120-180 DEG C and then, after homogenizing, addition of solid sulphur and mixing of the final product with the bitumen. According to the invention an ethylene-vinyl acetate EVA copolymer is added to the SBS copolymer, the medium consisting of a mixture of an aromatic heavy cut from steam cracking of paraffinic fractions originating from the distillation of oil crudes and of a

lighter aromatic petroleum oil of higher flash point. Application especially to the production of surface dressings, bituminous mixtures for roadways and industrial bitumens for sealing.

German Patent Document No. DE3630132A1 is in the German language and no English equivalent is available.

German Patent Document No. DD289052A5 is in the German language and no English translation equivalent is available.

German Patent Document No. DD289056A5 is in the German language and no English equivalent is available.


German Patent Document No. DE4034319A1, published May 16, 1991. This document discloses a polymer-modified bitumen (I) is produced by stirring 67-98 pts. wt. bitumen (with softening pt. 35-90 deg. C and contg. At least 25 wt.% resin) with 1.8-30 pts. wt. polybutadienes (with MN 2000-10,000, iodine no. 350-450 g I/100 g and viscosity 1-250 Pa.s at 20 deg.C) and 0.2-3.0 pts. wt. sulphur, for up to 12 hrs. at 160-230 deg. C. Up to 75 wt. % of the bitumen component consists of resin-rich hydrocarbon mixts., such as heavy vacuum distillates and/or petroleum processing residues and/or pitches or tars from hard coal or brown coal processing, or mixts. Up to 50 wt% of the polybutadiene consists of high-mol. Wt. synthetic rubber with Mb above 20,000.

Copies of the documents listed on Form PTO-1449 are attached hereto.

None of the patent documents are believed to negate the patentability of the present invention.

No fee is believed to be due. Should the Commissioner determine that a fee is due, he is hereby authorized to charge said fee to Deposit Account No. 02-0184

Respectfully Submitted,
Hercilio Rivas, et al,

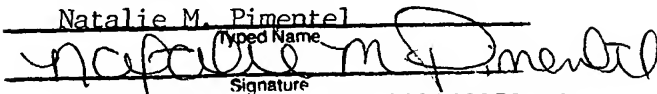
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	
		Filing Date	
		First Named Inventor	Hercilio Rivas, et a
		Art Unit	
		Examiner Name	
		Attorney Docket Number	01-682
Sheet		of	

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			
		EP0174795A2	03-19-1986	Exxon France		
		FR2533935A1	04-06-1984	ViaFrance, SA		
		DE3630132A1	04-09-1986	Haas et al.		
		DD289052A5	04-18-1991	Hydrierwerk		
		DD289056A5	04-18-1991	Hydrierwerk		
		DE4034319A1	05-16-1991	Hydrierwerk		

Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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